

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-306

Effective November 1, 2011

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **August 2013**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Series 1300 Aluminum Roofing Panels Installed Over a Wood Deck, manufactured by

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Perth Amboy, NJ 08861
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will be accepted for use in areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The Series 1300 aluminum roofing panel is a 0.032 gauge aluminum architectural roof system that is mechanically seamed. The panel is fabricated from a 20" wide coil of 0.032 gauge aluminum and has an effective area of 16" in width. Each finished roof panel is 119 1/2" long and has a male vertical leg that is 1 7/16" high and female vertical leg measuring 1 1/2" high.

LIMITATIONS

Roof Decking: The Series 1300 metal roof panels shall be installed over a minimum of 15/32" thick or 19/32" plywood decking as specified in this report.

New Roof Deck Attachment: The roof decking shall meet or exceed the uplift requirements of the International Residential Code and International Building Code, and the decking shall be installed in a manner to resist lateral loads.

Design Wind Pressures: For installations to 15/32" thick or 19/32" plywood roof decks, design wind pressure limitations are specified in Table 1.

Installation Over an Existing Roof Covering: Installation over an existing roof covering is not permitted.

Roof Slope: The panels shall not be installed on roofs with a roof slope less than 1/2 :12.

Table 1
Attachment of 16" Wide 0.032 gauge
Aluminum Roofing Panels to Wood Deck

System No.	Design Pressure (psf)	Min. Plywood Deck	Panel Seam	Panel Clip	Clip Spacing	Clip Fastener
1	-60	$1\frac{5}{32}$ "	180° Mechanical Seam	24 gauge 6 $\frac{1}{4}$ " long Galvanized Steel Clip	24"	(4) #10 x 1" Pancake head screws
2	-125.5	$1\frac{9}{32}$ "	180° Mechanical Seam	24 gauge 6 $\frac{1}{4}$ " long Galvanized Steel Clip	8"	(4) #10 x 1" Pancake head screws

INSTALLATION INSTRUCTIONS

General: The aluminum roofing panels shall be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Roof Framing Members: The roof framing members shall be spaced a maximum of 24 inches on center.

Underlayment: A minimum of one layer of No. 30 (Type II) asphalt felt shall be used. The underlayment used shall comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The underlayment shall be installed with 6-inch side laps and 3-inch end laps. The underlayment shall be applied with corrosion-resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners shall be applied along the overlaps not farther apart than 36 inches on center.

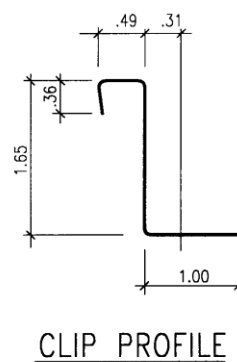
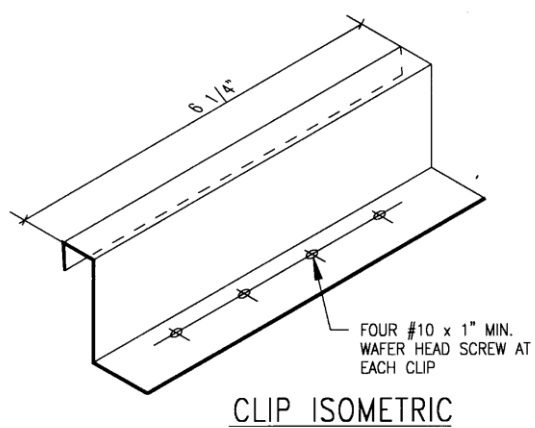
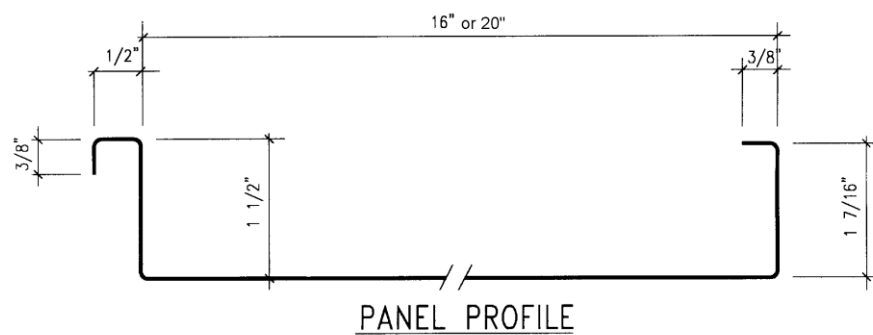
Anchorage to Roof Decking: The metal roof panels shall be fastened in accordance with Table 1.

System 1: The metal roofing panels shall be secured to the roof deck with a 24 gauge formed steel clip, measuring 6 $\frac{1}{4}$ " long by 1 $\frac{9}{16}$ " wide. The clips are located 12 inches from the ends of the panels and are spaced 24 inches on center. The clips are secured with four (4) No. 10 x 1" Pancake head screws. The panels overlap each other and a mechanical seamer is utilized to crimp the seams together.

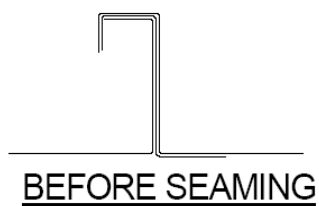
System 2: The metal roofing panels shall be secured to the roof deck with a 24 gauge formed steel clip, measuring 6 $\frac{1}{4}$ " long by 1 $\frac{9}{16}$ " wide. The clips are located 3 inches from the ends of the panels and are spaced 8 inches on center. The clips are secured with four (4) No. 10 x 1" Pancake head screws. The panels overlap each other and a mechanical seamer is utilized to crimp the seams together.

Trims, Closures, and Accessories: Components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim shall be installed as required by Englert Metal Roofing Installation Manual.

Note: The manufacturer's installation instructions shall be available on the job site during the installation. All fasteners, clips and plates shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.



ENGLERT SERIES 1300 STANDING SEAM PANEL PROFILE



ENGLERT SERIES 1300 PANEL CLIP PROFILE